

SPRAY CHARACTERISTICS:

A full cone spray pattern with larger flow rates and smaller droplet sizes. Durable, one-piece, anti-clog design has no internal vane to clog or wear out.

CONSTRUCTION:

All models are machined from solid bar stock. Standard materials of construction are brass, 303 stainless steel, 316 stainless steel, PVC and Teflon®. Other materials may be available on request.

TYPICAL APPLICATIONS:

- Washing and Rinsing
- Gas Cooling
- Chemical Processing
- Cooling Sprays
- Humidification

FULL CONE SPRAY

Spray Angle	MODEL NUMBER	Pipe Size (BSPT)	Orifice Dia. (mm)	Dimensions		CAPACITY (L/min) AT VARIOUS PRESSURES (bar)													
				"A" (mm)	"L" (mm)	0.3 bar	0.5 bar	.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	6 bar	10 bar	13 bar	17 bar	20 bar	
60°	1/4YS6007	1/4	2.21	14 Hex	47.7	1.75	2.26	2.67	3.2	3.9	4.5	5.5	6.4	7.8	10.1	11.5	13.2	14.3	
	1/4YS6013	1/4	3.18	14 Hex	47.7	3.25	4.2	5.0	5.9	7.3	8.4	10.3	11.9	14.5	18.7	21.4	24.4	26.5	
	3/8YS6007	3/8	2.21	17 Hex	54.0	1.75	2.26	2.67	3.2	3.9	4.5	5.5	6.4	7.8	10.1	11.5	13.2	14.3	
	3/8YS6013	3/8	3.18	17 Hex	54.0	3.25	4.2	5.0	5.9	7.3	8.4	10.3	11.9	14.5	18.7	21.4	24.4	26.5	
	3/8YS6020	3/8	3.96	17 Hex	54.0	5.0	6.5	7.6	9.1	11.2	12.9	15.8	18.2	22.3	28.8	33	38	41	
	3/8YS6030	3/8	4.78	17 Hex	54.0	7.5	9.7	11.4	13.7	16.8	19.3	23.7	27.4	34	43	49	56	61	
	3/8YS6040	3/8	5.56	17 Hex	54.0	10.0	12.9	15.5	18.2	22.3	25.8	31.6	36	45	58	66	75	82	
	3/8YS6053	3/8	6.35	17 Hex	54.0	13.2	17.1	20.2	24.2	29.6	34	42	48	59	76	87	100	108	
	3/8YS6082	3/8	7.95	17 Hex	54.0	20.5	26.4	31.3	37.4	46	53	65	75	92	118	135	154	167	
	1/2YS60120	1/2	9.53	22 Hex	63.5	30.0	39	46	54.7	67	77	95	109	134	173	197	226	245	
1/2YS60164	1/2	11.1	22 Hex	63.5	41	53	63	74.8	92	106	129	149	183	236	270	308	334		
90°	1/4YS9007	1/4	2.21	14 Hex	47.7	1.75	2.26	2.67	3.2	3.9	4.5	5.5	6.4	7.8	10.1	11.5	13.2	14.3	
	1/4YS9013	1/4	3.18	14 Hex	47.7	3.25	4.2	5.0	5.9	7.3	8.4	10.3	11.9	14.5	18.7	21.4	24.4	26.5	
	1/4YS9020	1/4	3.96	14 Hex	47.7	5.0	6.5	7.6	9.1	11.2	12.9	15.8	18.2	22.3	28.8	33	38	41	
	3/8YS9030	3/8	4.78	17 Hex	54.0	7.5	9.7	11.4	13.7	16.8	19.3	23.7	27.4	34	43	49	56	61	
	3/8YS9040	3/8	5.56	17 Hex	54.0	10.0	12.9	15.5	18.2	22.3	25.8	31.6	36	45	58	66	75	82	
	3/8YS9053	3/8	6.35	17 Hex	54.0	13.2	17.1	20.2	24.2	29.6	34	42	48	59	76	87	100	108	
	3/8YS9082	3/8	7.95	17 Hex	54.0	20.5	26.4	31.3	37.4	46	53	65	75	92	118	135	154	167	
	1/2YS90120	1/2	9.53	22 Hex	63.5	30.0	39	46	54.7	67	77	95	109	134	173	197	226	245	
	1/2YS90164	1/2	11.1	22 Hex	63.5	41	53	63	74.8	92	106	129	149	183	236	270	308	334	
	120°	1/4YS12007	1/4	2.21	14 Hex	47.7	1.75	2.26	2.67	3.2	3.9	4.5	5.5	6.4	7.8	10.1	11.5	13.2	14.3
1/4YS12013		1/4	3.18	14 Hex	47.7	3.25	4.2	5.0	5.9	7.3	8.4	10.3	11.9	14.5	18.7	21.4	24.4	26.5	
1/4YS12020		1/4	3.96	14 Hex	47.7	5.0	6.5	7.6	9.1	11.2	12.9	15.8	18.2	22.3	28.8	33	38	41	
3/8YS12030		3/8	4.78	17 Hex	54.0	7.5	9.7	11.4	13.7	16.8	19.3	23.7	27.4	34	43	49	56	61	
3/8YS12040		3/8	5.56	17 Hex	54.0	10.0	12.9	15.5	18.2	22.3	25.8	31.6	36	45	58	66	75	82	
3/8YS12053		3/8	6.35	17 Hex	54.0	13.2	17.1	20.2	24.2	29.6	34	42	48	59	76	87	100	108	
3/8YS12082		3/8	7.95	17 Hex	54.0	20.5	26.4	31.3	37.4	46	53	65	75	92	118	135	154	167	
1/2YS120120		1/2	9.53	22 Hex	63.5	30.0	39	46	54.7	67	77	95	109	134	173	197	226	245	
1/2YS120164		1/2	11.1	22 Hex	63.5	41	53	63	74.8	92	106	129	149	183	236	270	308	334	
150°		1/4YS15007	1/4	2.21	14 Hex	47.7	1.75	2.26	2.67	3.2	3.9	4.5	5.5	6.4	7.8	10.1	11.5	13.2	14.3
	1/4YS15013	1/4	3.18	14 Hex	47.7	3.25	4.2	5.0	5.9	7.3	8.4	10.3	11.9	14.5	18.7	21.4	24.4	26.5	
	1/4YS15020	1/4	3.96	14 Hex	47.7	5.0	6.5	7.6	9.1	11.2	12.9	15.8	18.2	22.3	28.8	33	38	41	
	3/8YS15030	3/8	4.78	17 Hex	54.0	7.5	9.7	11.4	13.7	16.8	19.3	23.7	27.4	34	43	49	56	61	
	3/8YS15040	3/8	5.56	17 Hex	54.0	10.0	12.9	15.5	18.2	22.3	25.8	31.6	36	45	58	66	75	82	
	3/8YS15053	3/8	6.35	17 Hex	54.0	13.2	17.1	20.2	24.2	29.6	34	42	48	59	76	87	100	108	
	3/8YS15082	3/8	7.95	17 Hex	54.0	20.5	26.4	31.3	37.4	46	53	65	75	92	118	135	154	167	
	1/2YS150120	1/2	9.53	22 Hex	63.5	30.0	39	46	54.7	67	77	95	109	134	173	197	226	245	
	1/2YS150164	1/2	11.1	22 Hex	63.5	41	53	63	74.8	92	106	129	149	183	236	270	308	334	

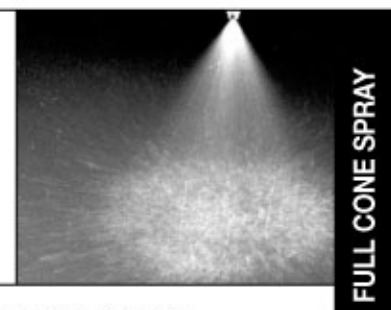
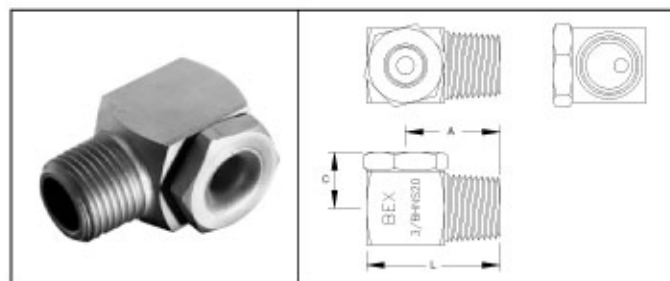
Spray Angle	MODEL NUMBER	Pipe Size (BSPT)	Orifice Dia. (mm)	Dimensions		CAPACITY (L/min) AT VARIOUS PRESSURES (bar)												
				"A" (mm)	"L" (mm)	0.3 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	6 bar	10 bar	13 bar	17 bar	20 bar
170°	1/4YS17013	1/4	3.18	14 Hex	30.2	3.25	4.2	5.0	5.9	7.3	8.4	10.3	11.9	14.5	18.7	21.4	24.4	26.5
	1/4YS17020	1/4	3.96	14 Hex	30.2	5.0	6.5	7.6	9.1	11.2	12.9	15.8	18.2	22.3	28.8	33	38	41
	3/8YS17030	3/8	4.78	17 Hex	54.0	7.5	9.7	11.4	13.7	16.8	19.3	23.7	27.4	34	43	49	56	61
	3/8YS17040	3/8	5.56	17 Hex	54.0	10.0	12.9	15.5	18.2	22.3	25.8	31.6	36	45	58	66	75	82
	3/8YS17053	3/8	6.35	17 Hex	54.0	13.2	17.1	20.2	24.2	29.6	34	42	48	59	76	87	100	108
	3/8YS17082	3/8	7.95	17 Hex	54.0	20.5	26.4	31.3	37.4	46	53	65	75	92	118	135	154	167
	1/2YS170120	1/2	9.53	22 Hex	63.5	30.0	39	46	54.7	67	77	95	109	134	173	197	226	245
	1/2YS170164	1/2	11.1	22 Hex	63.5	41	53	63	74.8	92	106	129	149	183	236	270	308	334

Vaneless full cone nozzles

HNS SERIES

DIMENSIONS

MODEL NUMBER FEMALE (BSPT)	Dim. A (mm)	Dim. B (mm)	Dim. L (mm)	MODEL NUMBER MALE (BSPT)	Dim. A (mm)	Dim. C (mm)	Dim. L (mm)
1/4FHNS	24	13	31	1/4HNS	24	13	31
3/8FHNS	25	14	36	3/8HNS	27	16	38
1/2FHNS	36	19	48	1/2HNS	36	19	48



SPRAY CHARACTERISTICS:

The HNS series vaneless full-cone nozzle projects a medium to coarse full-cone spray in a direction perpendicular to the nozzle inlet axis. The maximum free passage in this nozzle is substantially larger than most full-cone nozzles due to the 'vaneless' design. This nozzle is suitable for applications where a relatively coarse full-cone spray is required, and where standard nozzles are subject to plugging.

CONSTRUCTION:

The HNS series are made from bar stock and are a two piece construction. Standard materials are brass, 303 stainless steel and 316 stainless steel. Other materials are available upon request.

TYPICAL APPLICATIONS:

Wherever a medium to coarse full-cone spray is required from a nozzle with a larger maximum free passage.

SPECIAL FEATURES:

- 'Vaneless' full-cone design
- Large maximum free passage
- Easy disassembly/assembly and cleaning

MODEL NUMBER		PIPE SIZE BSPT	MAXIMUM FREE PASSAGE (mm)	CAPACITY (L/min) AT VARIOUS PRESSURES (bar)												
FEMALE	MALE			0.3 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar		
1/4FHNS5	1/4HNS5	1/4	1.98	1.25	1.61	1.91	2.28	2.79	3.2	3.9	4.6	5.1	5.6	6.0		
1/4FHNS7	1/4HNS7	1/4	2.39	1.75	2.26	2.67	3.2	3.9	4.5	5.5	6.4	7.1	7.8	8.4		
1/4FHNS8	1/4HNS8	1/4	2.77	2.00	2.58	3.05	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6		
1/4FHNS10	1/4HNS10	1/4	3.18	2.50	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1		
1/4FHNS11	1/4HNS11	1/4	3.58	2.75	3.5	4.2	5.0	6.1	7.1	8.7	10.0	11.2	12.3	13.3		
3/8FHNS11	3/8HNS11	3/8	3.18	2.75	3.5	4.2	5.0	6.1	7.1	8.7	10.0	11.2	12.3	13.3		
3/8FHNS13	3/8HNS13	3/8	3.58	3.2	4.2	5.0	5.9	7.3	8.4	10.3	11.9	13.2	14.5	15.7		
3/8FHNS16	3/8HNS16	3/8	3.96	4.0	5.2	6.1	7.3	8.9	10.3	12.6	14.6	16.3	17.9	19.3		
3/8FHNS20	3/8HNS20	3/8	4.37	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	20.4	22.3	24.1		
3/8FHNS23	3/8HNS23	3/8	4.78	5.7	7.4	8.8	10.5	12.8	14.8	18.2	21.0	23.4	25.7	27.7		
3/8FHNS26	3/8HNS26	3/8	5.16	6.5	8.4	9.9	11.9	14.5	16.8	20.5	23.7	26.5	29.0	31		
3/8FHNS29	3/8HNS29	3/8	5.56	7.2	9.3	11.1	13.2	16.2	18.7	22.9	26.4	29.6	32	35		
3/8FHNS33	3/8HNS33	3/8	5.94	8.2	10.6	12.6	15.0	18.4	21.3	26.1	30.1	34	37	40		
1/2FHNS32	1/2HNS32	1/2	5.16	8.0	10.3	12.2	14.6	17.9	20.6	25.3	29.2	33	36	39		
1/2FHNS40	1/2HNS40	1/2	5.94	10.0	12.9	15.3	18.2	22.3	25.8	32	36	41	45	48		
1/2FHNS48	1/2HNS48	1/2	7.14	12.0	15.5	18.3	21.9	26.8	30.9	38	44	49	54	58		
1/2FHNS56	1/2HNS56	1/2	7.54	14.0	18.0	21.4	25.5	31.3	36	44	51	57	63	68		
1/2FHNS64	1/2HNS64	1/2	8.33	16.0	20.6	24.4	29.2	36	41	51	58	65	71	77		
1/2FHNS72	1/2HNS72	1/2	9.12	18.0	23.2	27.5	33	40	46	57	66	73	80	87		